

# Physical Talk on Embodied Carbon and Decarbonisation of Transport Projects

BEM APPROVED CPD: 2

REF NO: IEM24/HQ/379/T (w)

**Date** : 5 November 2024 (Tuesday)  
**Time** : 5.30 pm- 7.30 pm  
**Venue** : Auditorium Malakoff  
Wisma IEM

## SPEAKERS:

**Er. Lau Ching Luan**

**Er. Annabelle Loke**

## REGISTRATION FEES

- \*Student Member : FOC
- \*IEM Member : RM 15.00
- \*Non-Member : RM 70.00

## SYNOPSIS

This presentation aims to share our assessment on the embodied carbon on transport projects, both underground and elevated structures, and alternatives to advance decarbonisation in our design. This includes strategies like active and passive design techniques, dematerialisation efforts, and embracing circular economy principles such as reusing structural steel and concrete. By emphasizing the reuse of materials and integrating waste into concrete production, we aim to significantly mitigate environmental impact and promote a sustainable future for infrastructure development.

Jointly Organize by  
TUNNELLING AND UNDERGROUND SPACE TECHNICAL DIVISION (TUSTD) &  
ENVIRONMENTAL ENGINEERING TECHNICAL DIVISION (ENETD)

To REACTIVATE your membership,  
you only need to pay:

- ✓ Annual Subscription 2024
- ✓ Reinstatement Fee RM 100



**DON'T MISS THIS OPPORTUNITY!**

CONTACT US

03-78900131 Pn. Fatimah

fatimah@iem.org.my

Only applicable until 31st December 2024 - seize the deal today!

**Hurry!**  
**ATTENTION GRADUATE MEMBERS**

# SPEAKERS PROFILE



**Er. Lau Ching Luan**

As the Malaysia Country Leader, Lau CL drives Arup's strategy and commercial performance and leads the way with long-term client relationships in Malaysia and broader Southeast Asia. With over 20 years of experience in buildings and infrastructure projects, Lau has a deep understanding of core markets and working relationship with both public and private sector clients, providing technical design, advisory and planning leadership for high-profile urban transport and city-shaping developments.

A transport and rail specialist, Lau has led large multidisciplinary consultant teams to deliver feasibility studies and designs of various infrastructure projects for enhanced connectivity and socioeconomic development across the world. His portfolio includes Kuala Lumpur's Klang Valley MRT Lines 2 and 3, Singapore's North South Corridor, Downtown Line and Thomson East-Coast Line, Melbourne Metro, Abu Dhabi's QAH Cultural Redevelopment, and London's Heathrow Terminal 5.



**Er. Annabelle Loke**

Annabelle Loke is an Associate in Arup Singapore, co-leading the C&S team in Infrastructure group, specialising in structural engineering and project management. She managed and designed notable infrastructure projects, including the Cross Island Line, Changi Inter Terminal Bored Tunnels, Downtown Line Bencoolen and Bugis stations in Singapore.

Annabelle's passion lies in promoting sustainability in the built environment. As the Sustainability Lead for Infrastructure at Arup Singapore, she leads initiatives to integrate sustainable practices into infrastructure projects. Annabelle advocates for the use of innovative technologies, materials, and construction methods to reduce environmental impact and enhance urban infrastructure resilience. Her collaborative approach and leadership skills contribute to shaping a greener and more sustainable future for Singapore's built environment.

**FOLLOW US**



[myiem.org.my](https://myiem.org.my)



[myiem\\_official](https://www.instagram.com/myiem_official)



[myIEM HQ official- General](https://www.telegram.me/myiemHQ)